



# Innovation Disclosure

Docket No.: 97RSS327  
Ranking: A1

## 1. Innovator(s)

Name	SSN	Dept.	Mail Code	Telephone	Supervisor
Joel D Peshkin					
Paul Wren					
Michael Whitfield				Redacted	

## 2. Title of Invention

Separating Commands And Data Using Logical Channels

## 3. Problem Solved

Modems require 2 type of information flow, one for commands intended for interpretation by the local modem, and one for tx data that should be passed on to the remote modem. Current implementations use command and data modes to distinguish when the information flow is for the local or remote modem.

This requires procedures to switch from one mode to another (some of which are patented), and overhead to implement these procedures. It also means that while a command is being executed, no data can be sent to the far end.

## 4. Previous Solutions

## 5. Solution

This new solution turns one physical channel into two logical channels. It does this by setting aside a group of hardware registers which pass messages about the data, one parameter of the messages being the channel number. By reserving one channel number for commands, and another for data, the information's destination can be indicated. This avoids the need for command and data mode and the procedures and overhead switching modes requires. It also means that a command can be sent followed immediately by data, and the data will not upset the command.

## 6. Differences/Advantages Over Previous Solutions

**7. Status of Innovation**

Idea If "Other", please specify

**8. Product or program in which innovation will be used:**

RL56CSM/3 (Tripac project)

**9. Has anyone disclosed or does anyone plan to disclose your innovation outside the Company?**

Yes       No       Don't Know

If "Yes", where: RL56CSM/3 Host Interface Spec

**10. Has anyone proposed or does anyone plan to propose a product or program to a customer which includes your innovation?**

Yes       No       Don't Know

If "Yes", when and how: Early June 97

**11. Innovator signature(s): (Do not use black ink)**

Date \_\_\_\_\_

Date \_\_\_\_\_

Date \_\_\_\_\_

Entered: Donna Bastedo @ 07/08/97 10:45 AM

Modified: James K Dawson @ 11/18/97 10:10 AM

**Revision History:**

Revised: 23-Jul-1997 12:59 PM by Donna Bastedo  
23-Jul-1997 05:33 PM by James K Dawson  
21-Sep-1997 01:44 PM by James K Dawson  
18-Nov-1997 10:10 AM by James K Dawson  
18-Nov-1997 10:10 AM by James K Dawson



Philip K. Yu  
Intellectual Property Law Department  
Department 678, MS 510-800  
Phone: (714) 221-3203  
Fax: (714) 221-3206

January 13, 1998

Mike Kelly, Esq.  
Snell & Wilmer  
One Arizona Center  
Phoenix, AZ 85004-0001

Re: Patent Application Preparation

Dear Mike:

We are very pleased that Snell & Wilmer is now able to help us in the preparation and filing of patent applications for our business units. As Mark and I discussed last week, please prepare patent applications for the below listed fifteen (15) disclosures (copies attached):

Our Docket No.	Inventor(s)	Title	Known Bar Dates
		Redacted	
		Redacted	
		Redacted	
97RSS327	Peshkin; Wren; Whitfield	Separating Commands and Data Using Logical Channels	
		Redacted	



**Redacted**

**Redacted**

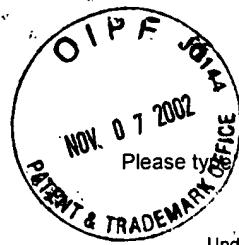
ROCKWELL SEMICONDUCTOR SYSTEMS, INC.

*Philip K. Yip*  
Philip K. Yip  
Intellectual Property Law Counsel

PKY/moc

Attachments (15)

g:oc/snell&wilmer/auth0113



Please type a plus sign (+) inside this box → +

CS

2631

PTO/SB/21 (08-00)

Approved for use through 10/31/2002. OMB 0651-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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# TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

<b>TRANSMITTAL FORM</b> <i>(to be used for all correspondence after initial filing)</i>		Application Number	09/264,065
		Filing Date	Mar 8, 1999
		First Named Inventor	Peshkin, Joel D
		Group Art Unit	2631
		Examiner Name	Kevin M. Burd
Total Number of Pages in This Submission	16	Attorney Docket Number	01CON222P

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ENCLOSURES (check all that apply)			
<input checked="" type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached  <input checked="" type="checkbox"/> Amendment / Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s)  <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s)  <input type="checkbox"/> Response to Missing Parts/ Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Assignment Papers (for an Application) <input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s)	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):	
		1. Declaration of Applicant, Paul Wren 2. Declaration of Applicant, Joel D. Peshkin 3. Redacted Exhibits	
		Remarks	

## SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	Farshad Farjami, Esq. Reg. No. 41074 Farjami & Farjami LLP
Signature	
Date	October 30, 2002

## CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, Washington, D.C. 20231 on this date: October 30, 2002

Type or printed name	Lori Lave		
Signature		Date	October 30, 2002

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



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# FEE TRANSMITTAL for FY 2002

Patent fees are subject to annual revision.

 Applicant Claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$ 0.00)

Complete if Known

Application Number	09/264,065
Filing Date	3/8/1999
First Named Inventor	Peshkin, et al.
Examiner Name	Kevin M. Burd
Group Art Unit	2631
Attorney Docket No.	01CON222P

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METHOD OF PAYMENT (check all that apply)				FEE CALCULATION (continued)			
<input type="checkbox"/> Check <input type="checkbox"/> Credit card <input type="checkbox"/> Money Order <input type="checkbox"/> Other <input type="checkbox"/> None <input checked="" type="checkbox"/> Deposit Account Deposit Account Number 50-0731 Deposit Account Name Farjam & Farjam LLP				<b>3. ADDITIONAL FEES</b> Large Entity Small Entity Fee Fee Fee Fee Fee Paid 105 130 205 65 Surcharge - late filing fee or oath 127 50 227 25 Surcharge - late provisional filing fee or cover sheet 139 130 139 130 Non-English specification 147 2,520 147 2,520 For filing a request for ex parte reexamination 112 920* 112 920* Requesting publication of SIR prior to Examiner action 113 1,840* 113 1,840* Requesting publication of SIR after Examiner action 115 110 215 55 Extension for reply within first month 116 400 216 200 Extension for reply within second month 117 920 217 460 Extension for reply within third month 118 1,440 218 720 Extension for reply within fourth month 128 1,960 228 980 Extension for reply within fifth month 119 320 219 160 Notice of Appeal 120 320 220 160 Filing a brief in support of an appeal 121 280 221 140 Request for oral hearing 138 1,510 138 1,510 Petition to institute a public use proceeding 140 110 240 55 Petition to revive - unavoidable 141 1,280 241 640 Petition to revive - unintentional 142 1,280 242 640 Utility issue fee (or reissue) 143 460 243 230 Design issue fee 144 620 244 310 Plant issue fee 122 130 122 130 Petitions to the Commissioner 123 50 123 50 Processing fee under 37 CFR 1.17(q) 126 180 126 180 Submission of Information Disclosure Stmt 581 40 581 40 Recording each patent assignment per property (times number of properties) 146 740 246 370 Filing a submission after final rejection (37 CFR § 1.129(a)) 149 740 249 370 For each additional invention to be examined (37 CFR § 1.129(b)) 179 740 279 370 Request for Continued Examination (RCE) 169 900 169 900 Request for expedited examination of a design application  Other fee (specify) _____ *Reduced by Basic Filing Fee Paid			
<b>1. BASIC FILING FEE</b> Large Entity Small Entity Fee Fee Fee Fee Fee Description Fee Paid 101 740 201 370 Utility filing fee 106 330 206 165 Design filing fee 107 510 207 255 Plant filing fee 108 740 208 370 Reissue filing fee 114 160 214 80 Provisional filing fee				<b>2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE</b> Extra Claims Fee from below Fee Paid Total Claims -20**= X = Independent Claims - 3**= X = Multiple Dependent			
<b>3. SUBTOTAL (1) (\$)</b>				<b>4. SUBTOTAL (2) (\$)</b>			
** or number previously paid, if greater; For Reissues, see above							
<b>5. SUBMITTED BY</b> Complete (if applicable)							
Name (Print/Type)	Farshad Farjam, Esq.		Registration No. (Attorney/Agent)	41014	Telephone	(949) 784-4600	
Signature					Date	10/30/02	

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